EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Algebraic Expressions and Identities

Grade : CBSE Grade VIII

1. The value of 33×27 is

   (i) 889 (ii) 892 (iii) 894 (iv) 890 (v) 891

2. The value of $(-4v) \times (-9v)$ is

   (i) $34v^2$ (ii) $37v^2$ (iii) $35v^2$ (iv) $36v^2$ (v) $39v^2$

3. The value of $(4s^2t - 7s^2 - 4t^2 + 6t) + (7s^2t + 4s^2 - 3t^2 - 2t)$ is

   (i) $(11s^2t - 3s^2 - 7t^2 + 4t)$ (ii) $(11s^2t - s^2 - 7t^2 + 4t)$ (iii) $(10s^2t - 3s^2 - 7t^2 + 4t)$

   (iv) $(11s^2t - 5s^2 - 7t^2 + 4t)$ (v) $(12s^2t - 3s^2 - 7t^2 + 4t)$

4. The sum of the terms $3, (-4), 8, 4h, (-3)$ is

   (i) $(4h + 4)$ (ii) $(3h + 4)$ (iii) $(4h + 6)$ (iv) $(5h + 4)$ (v) $(4h + 2)$

5. $(a - b)^2$

   (i) $(a^2 + b^2)$ (ii) $(a^2 - 5ab + b^2)$ (iii) $(-2ab + b^2)$ (iv) $(a^2 - 2ab + b^2)$ (v) $(2a^2 - 2ab + b^2)$

6. $(a + b)^2$

   (i) $(a^2 - ab + b^2)$ (ii) $(2a^2 + 2ab + b^2)$ (iii) $(a^2 + 2ab + b^2)$ (iv) $(a^2 + 5ab + b^2)$ (v) $(2ab + b^2)$

7. Which of the following is a like term of $(-4qrp^2)$?

   (i) $(-pq^2r)$ (ii) $7p^2q^2r$ (iii) $9pqr^2$ (iv) $2p^2qr$ (v) pqr

8. The value of $8f^2g^2 + (-f^2g^2) + f^2g^2 + (-f^2g^2)$ is

   (i) $9f^2g^2$ (ii) $4f^2g^2$ (iii) $8f^2g^2$ (iv) $6f^2g^2$ (v) $7f^2g^2$

9. The value of $(-7s^2 + 1) \times (r^2s + 9r^2)$ is

   (i) $(-8r^2s^3 - 63r^2s^2 + r^2s + 9r^2)$ (ii) $(-7r^2s^3 - 60r^2s^2 + r^2s + 9r^2)$ (iii) $(-6r^2s^3 - 63r^2s^2 + r^2s + 9r^2)$

   (iv) $(-7r^2s^3 - 65r^2s^2 + r^2s + 9r^2)$ (v) $(-7r^2s^3 - 63r^2s^2 + r^2s + 9r^2)$

10. Which of the following terms can be added to $(-6edf^2)$?

    (i) $6def^2$ (ii) $3d^2e^2f$ (iii) $(-6d^2ef)$ (iv) de^2f^2 (v) $(-5d^2ef^2)$

11. Which of the following terms can be added to $7k$?

(i) $(-5k^3)$ (ii) (-9) (iii) k (iv) $(-9k^2)$ (v) $7k^4$

12. The value of $(-4e^3)-(-5e^3)$ is

(i) 0 (ii) $4e^3$ (iii) e^3 (iv) $2e^3$ (v) $(-2e^3)$

13. The value of $(8z^4+4z-3)-(-6z^5+z^4-6z^3)-(4z^4+8z+8)$ is

(i) $(6z^5+3z^4+6z^3-4z-11)$ (ii) $(8z^5+3z^4+6z^3-4z-11)$ (iii) $(7z^5+3z^4+6z^3-4z-11)$

(iv) $(5z^5+3z^4+6z^3-4z-11)$ (v) $(4z^5+3z^4+6z^3-4z-11)$

14. The value of $(3f^2-5f-8)-(-2f^2-2f+3)$ is

(i) $(7f^2-3f-11)$ (ii) $(5f^2-3f-11)$ (iii) $(4f^2-3f-11)$ (iv) $(6f^2-3f-11)$ (v) $(2f^2-3f-11)$

15. The value of $d \times d \times d$ is

(i) 0 (ii) $2d^3$ (iii) $3d^3$ (iv) d^3 (v) $(-2d^3)$

16. Which of the following terms can be added to c?

(i) $3c$ (ii) $6c^2d^2e^2$ (iii) $(-3cd^2)$ (iv) $(-d^2e)$ (v) $(-8e)$

17. Which of the following algebraic expressions is a monomial?

(i) $(6k^2l^3m-6k^2l^2m^2+5kl^3m+9l^3m)$ (ii) $(8k^3l^2m^3+3k^2)$ (iii) k^2lm^3

(iv) $(-8k^3l^3+3k^2l^2m^2+k^2-5kl^2)$ (v) $(-3k^3m^3-kl^2m^2+7l^2m^3)$

18. Which of the following terms can be subtracted from $(-6y^2z^2x^2)$?

(i) $2x^2y^2z^2$ (ii) $(-5x^2yz^2)$ (iii) $7xyz^2$ (iv) $(-4x^2y^2z)$ (v) $2x^2yz$

19. Which of the following algebraic expressions is a zero polynomial?

(i) $(9n^2op^3+2n^2op-3no-n)$ (ii) 0 (iii) $(4n^3p^2+8)$ (iv) $(6n^3o^3+4o^3p^3-5p)$ (v) $5no^3p^2$

20. The value of $\frac{1}{2}qr+\frac{1}{2}qr$ is

(i) $3qr$ (ii) 0 (iii) $2qr$ (iv) qr (v) $(-qr)$

21. Which of the following algebraic expressions is a constant polynomial?

(i) $(-3i^4)$ (ii) (i^4+9i) (iii) $(-9i^3-4i-2)$ (iv) (-9) (v) $(7i^4-3i^3-5i^2-8i-2)$

22. The value of $\frac{4}{5}t^3-\frac{1}{2}t^3$ is

(i) $\frac{3}{10}t^3$ (ii) $\frac{1}{2}t^3$ (iii) $\frac{3}{8}t^3$ (iv) $\frac{1}{10}t^3$ (v) $\frac{1}{4}t^3$

23. The product of the terms $(-t), 3u, (-2tu), 5, (-3)$ is

(i) $(-89t^2u^2)$ (ii) $(-90t^2u^2)$ (iii) $(-87t^2u^2)$ (iv) $(-91t^2u^2)$ (v) $(-93t^2u^2)$

24. The value of $(-2wx+6w) \times (2x-9)$ is

(i) $(-4wx^2+30wx-54w)$ (ii) $(-3wx^2+30wx-54w)$ (iii) $(-4wx^2+33wx-54w)$

(iv) $(-5wx^2+30wx-54w)$ (v) $(-4wx^2+27wx-54w)$

25. The value of $\frac{2}{3}s - \frac{1}{5}s$ is

(i) $\frac{1}{3}s$ (ii) $\frac{3}{5}s$ (iii) $\frac{7}{17}s$ (iv) $\frac{7}{13}s$ (v) $\frac{7}{15}s$

Assignment Key

1) (v)	2) (iv)	3) (i)	4) (i)	5) (iv)	6) (iii)
7) (iv)	8) (v)	9) (v)	10) (i)	11) (iii)	12) (iii)
13) (i)	14) (ii)	15) (iv)	16) (i)	17) (iii)	18) (i)
19) (ii)	20) (iv)	21) (iv)	22) (i)	23) (ii)	24) (i)
25) (v)					